

# Preliminary Commercial Harbor Craft Emission Inventory



Public Workshop July 27, 2006

Chengfeng Wang, Ph.D. Mobile Source Analysis Branch



## Outline

- Data sources
- > Methodology
- > Preliminary results
- Next steps

July 27, 2006

2

### **Data Sources**

- Population data from multiple sources
  - · U.S. Coast Guard registration data
  - CA Department of Fish & Game registration data
  - Port of Los Angeles Emission Inventory ARB Survey (2002)
  - ARB 2003 Port/Harbor/ Marina Survey
- Engine specific data used to derive emission rates from ARB's Commercial Harbor Craft Survey
- Zero hour emission factors, attrition rates, deterioration factors from ARB's OFFROAD model

July 27, 2006

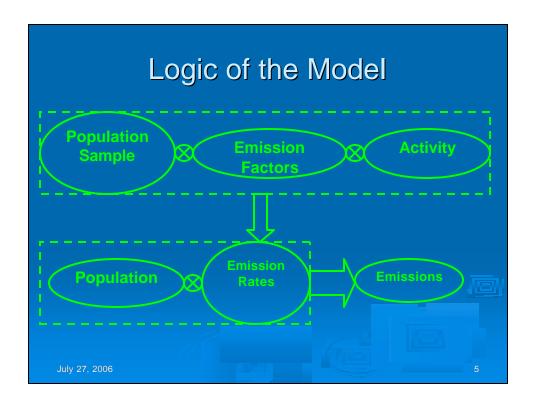
3

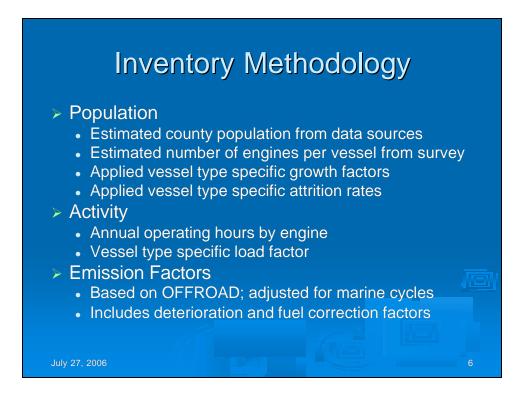
### Differences from Previous Inventories

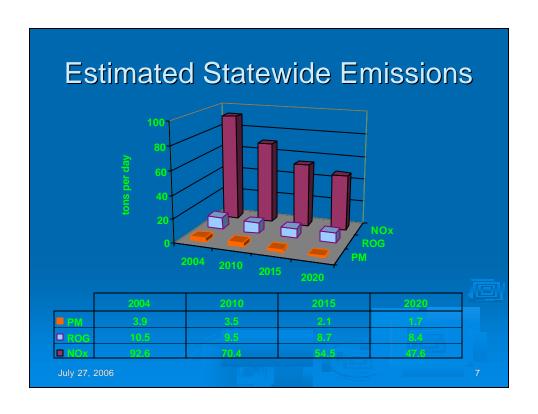
- > Single, integrated model with flexibility
- More detailed calculations
  - Use available engine specific data instead of average when calculating emission rates
- Forecast of future year emissions based on fleet growth, engine deterioration, fleet attrition
- Covers 100 miles from shore (GMERP 24 miles)
- Updated data
  - Engine useful life and annual operating hours

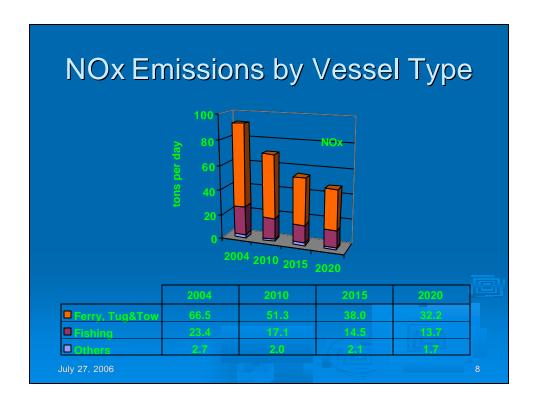
July 27, 2006

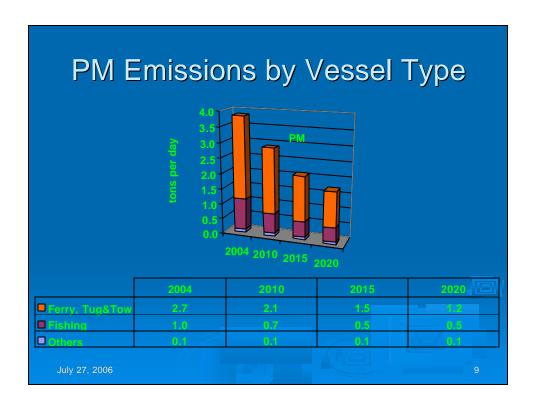
2

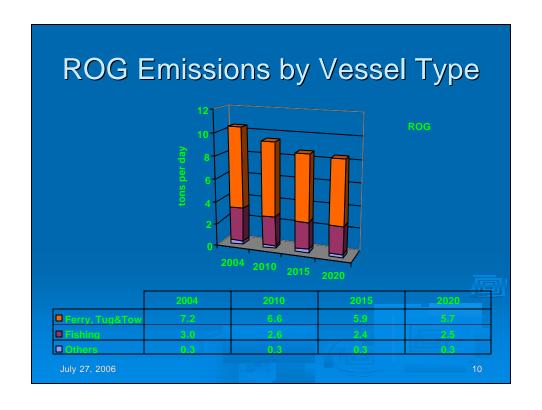












# Next Steps > Verify and validate > Integrate SOx emissions > Refine spatial distribution > Modify according to comments > Incorporate proposed regulations to support regulatory analysis

